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**Steimle et al.**

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(54) **METHOD FOR AGGREGATING TASK DATA OBJECTS AND FOR PROVIDING AN AGGREGATED VIEW**

(56) **References Cited**

U.S. PATENT DOCUMENTS

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5,832,475 A 11/1998 Agrawal et al.  
5,909,217 A \* 6/1999 Bereiter ..... 715/854  
(Continued)

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FOREIGN PATENT DOCUMENTS

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EP 1840576 A2 10/2007  
JP H09-211003 A 8/1997  
(Continued)

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OTHER PUBLICATIONS

“Patient Safety Refresher—Universal Protocol”, dated Dec. 2006  
and downloaded from <http://med.stanford.edu/shs/update/archives/DEC2006/boardpass.pdf> on Aug. 19, 2016.\*

(Continued)

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See application file for complete search history.

(57) **ABSTRACT**

A method implemented by an analysis system is presented. The method comprises receiving task data objects. At least some of the received task data objects are aggregated into aggregated task data object groups. All task data objects belonging to the same aggregated task data object group share at least one step of a task. A selectable aggregation GUI element is specified for each of the aggregated task data object groups. The aggregation GUI elements are displayed in an aggregated view on a graphical user interface. Upon selection of one of the aggregation GUI elements by a user, the aggregated task data object group represented by the selected aggregation GUI element is selected and the user access to program instructions for executing the shared step of the selected aggregated task data object group is automatically provided.

**16 Claims, 18 Drawing Sheets**

